

APPLICATION FOR
UNITED STATES LETTERS PATENT

SPECIFICATION

TO ALL WHOM IT MAY CONCERN:

Be it known that I, Jimmie L. Lindsey, a citizen of the United States of America, and resident of the State of Mississippi, having a postal address of Post Office Box 9761, Jackson, Mississippi, 39286, have invented a new and useful "**Dual Spray Cleaning Apparatus**", of which the following forms the specification.

“Dual Spray Cleaning Apparatus”

BACKGROUND OF THE INVENTION

CROSS REFERENCE TO RELATED APPLICATIONS

Not applicable.

5 Field of the Invention

The present invention relates to the field of combined spraying sweeping apparatus in general and in particular to a dual spray arrangement associated with a drying squeegee.

Description of Related Art

10 As can be seen by reference to the following U.S. Patent Nos. 5,271,682; 6,419,415; 4,930,706; 4,095,746, and 4,022,382, the prior art is replete with myriad and diverse cleaning apparatus that employ high pressure sprays both by themselves and in concert with other cleaning implements.

15 While all of the aforementioned prior art constructions are more than adequate for the basic purpose and function for which they have been specifically designed, they are uniformly deficient with respect to their failure to provide a simple, efficient, and practical dual spray arrangement for cleaning a floor surface in combination with a squeegee style wiper blade for wiping the surface dry.

20 Currently in the restaurant business alone two or three employees are tasked with cleaning up the kitchen floors at the close of business wherein, the first employee sweeps the floor and applies a de-greaser, the second employee washes the floor

down with a hose and the third employee follows up with a mop or squeegee to dry the floor surface and this is only one example of environments wherein, more than one employee is required to clean a floor surface.

As a consequence of the foregoing situation, there has existed a longstanding need in many industries for a new and improved combined dual spray and squeegee apparatus that can be utilized by a single employee to sweep, de-grease, wipe, and dry a floor surface with a single implement resulting in savings in both manpower and in operating costs; and, the provision of such an apparatus is the stated objective of the present invention.

BRIEF SUMMARY OF THE INVENTION

Briefly stated, the dual spray cleaning apparatus that forms the basis of the present invention comprises in general a squeegee unit, a primary spray unit and an auxiliary spray unit that cooperate with one another to sweep, de-grease, wipe and dry a hard waterproof floor surface.

As will be explained in greater detail further on in the specification, the squeegee unit comprises a T-shaped handle member the distal end of which is provided with an elongated squeegee or wiper blade that is affixed to the cross-arm of the handle member.

In addition, the stem and cross arms of the handle member are operatively connected to the primary spray unit which includes a T-shaped spray wand wherein, the spray wand cross-arm is provided with a plurality of downwardly directed spray nozzles and the proximal end of the elongated stem of the spray wand is provided with a main spray gun member having a first trigger that controls the delivery of water and/or soap, de-greaser or other cleaning fluids to the spray nozzles from a remote fluid supply.

Furthermore, the auxiliary spray unit includes an auxiliary single nozzle spray gun member fluidly coupled upstream of the main spray gun member via an elongated flexible hose that allows the focused delivery of hot water, de-greaser, etc., into those areas that are not accessible to the squeegee mounted spray array.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

These and other attributes of the invention will become more clear upon a thorough study of the following description of the best mode for carrying out the invention, particularly when reviewed in conjunction with the drawings, wherein:

5 FIG. 1 is a perspective view of the dual spray cleaning apparatus that forms the basis of the present invention;

 FIG. 2 is an enlarged perspective view of the primary and auxiliary spray gun members; and,

 FIG. 3 is an isolated detail view of the squeegee unit and the nozzle array of
10 the primary spray unit.

DETAILED DESCRIPTION OF THE INVENTION

As can be seen by reference to the drawings, and in particular to FIG. 1, the dual spray cleaning apparatus that forms the basis of the present invention is designated generally by the reference number **10**. The apparatus **10** comprises in
15 general a squeegee unit **11**, a primary spray unit **12** and an auxiliary spray unit **13**. These units will now be described in seriatim fashion.

As can best be appreciated by reference to Figs. 1 and 3, the squeegee unit **11** comprises a generally T-shaped handle member **20** having a stem **21** and an elongated cross-arm **22** provided with a downwardly depending elongated wiper blade member **23** the purpose and function of which will be described in greater detail
20 further on in the specification.

Turning now to Figs. 1 through 3, it can be seen that the primary spray unit **12** comprises a generally T-shaped spray wand member **30** having an elongated hollow shaft **31** the distal end of which is connected to the squeegee unit **11** and terminates
25 in a cross-arm **32** provided with a plurality of downwardly directed spaced spray nozzles **33** the spray jets of which are focused forwardly of the wiper blade member.
23.

In addition, the proximal end of the spray wand shaft **31** is coupled to a primary spray gun member **34** having a trigger **35** and further provided with a branched fluid
30 coupling **36** having a proximal end **36'** adapted to be operatively connected to a high

pressure hose **100** that may deliver hot water, de-greaser, etc., through the coupling and further having an intermediate portion **36"** that is adapted to be fluidly coupled to the auxiliary spray unit **13** as will be explained presently.

5 As can best be seen by reference to Figs. 1 and 2, the auxiliary spray unit **13** comprises a single nozzle auxiliary spray gun member **40** provided with a trigger **41** and having an elongated length of coiled hose **42** that operatively connects the auxiliary spray gun member **40** to the branched fluid coupling **36** in a well recognized fashion.

10 In addition, as is best depicted in Fig. 2, the primary spray gun member **34** is provided with a trigger guard **37** having a hook element **38** and the auxiliary spray gun member **40** may be releasably suspended from the primary spray gun member **34** when the auxiliary spray gun member **40** is not being actively deployed.

15 Although only an exemplary embodiment of the invention has been described in detail above, those skilled in the art will readily appreciate that many modifications are possible without materially departing from the novel teachings and advantages of this invention. Accordingly, all such modifications are intended to be included within the scope of this invention as defined in the following claims.

20 Having thereby described the subject matter of the present invention, it should be apparent that many substitutions, modifications, and variations of the invention are possible in light of the above teachings. It is therefore to be understood that the invention as taught and described herein is only to be limited to the extent of the breadth and scope of the appended claims.